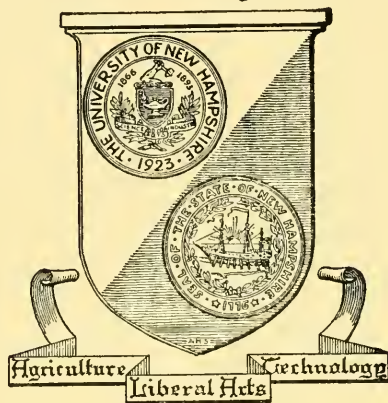




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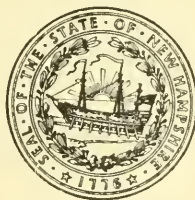
The University
of
New Hampshire

THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

Department of Agricultural and Biological Chemistry

Inspection of Commercial Feedingstuffs

Made for the
State Department of Agriculture



By T. O. SMITH and H. A. DAVIS

The University of New Hampshire
Durham, N. H.

INSPECTION OF COMMERCIAL FEEDINGSTUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feedingstuffs reported in this bulletin was made under the direction of Honorable Perley I. Fitts, Commissioner of Agriculture. Mr. George H. Laramie, Feed Control Supervisor, and Mr. Vincent P. Peterson, Inspector, collected samples of 604 brands of feedingstuff which were offered for sale in the state during the year ending June, 1948. The 604 samples represent brands of 101 manufacturers.

REGISTRATION AND LABELING OF FEEDINGSTUFFS

Registration—The New Hampshire law, entitled an Act to Regulate the Sale of Commercial Feedingstuffs, requires registration of each brand offered for sale. This is usually done by the manufacturer or jobber whether or not he is located within or outside the state. Feedingstuffs manufactured in other states frequently pass through several middlemen before they reach the local distributor. Under the provisions of the law, if the manufacturer or jobber fails to make registration, the dealer is responsible. Dealers who purchase feed for resale must assure themselves that the brands they purchase are properly registered and the license fee is paid; otherwise, they must assume that responsibility. All matters relative to registration and all inquiries concerning the law should be addressed to the Feed Control Supervisor, State House, Concord.

Labeling—The law requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feedingstuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein and of fat and the maximum percentage only of crude fiber. In order to secure greater uniformity in the labeling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved 22 general regulations which "should be adopted by State officials as far as the statutes will permit." There are no conflicts with the New Hampshire feedingstuffs law in these regulations. Manufacturers and dealers are, therefore, expected to conform to the regulations of the Association in all matters not specifically mentioned in the law.

One sentence in the New Hampshire feedingstuff law reads as follows: "... and shall state in bold type upon the container or tag attached thereto, if a compounded feed, the names of the several ingredients therein contained." To avoid the misinterpretation or deception that may result from the manufacturer's use of indefinite terms in listing the ingredients, the Association of American Feed

Control Officials has adopted 217 official definitions of ingredients used in the compounding of feedingstuffs. These definitions are subject to frequent addition and revision. At the present time there are also 31 tentative definitions and 20 that have been proposed for future discussion. Tentative definitions are those which have received favorable consideration but have not yet been made official. A 150-page booklet containing the above three classes of definitions, 22 general regulations, three tentative regulations, 21 resolutions adopted, and other instructive material may be obtained from the Secretary of the Association of American Feed Control Officials, College Park, Maryland. The manufacturer should secure a copy of this booklet and list the ingredients accurately. Carelessness or indifference in listing the ingredients should create sales resistance in the buyer. The purchaser is warranted in concluding that the manufacturer who is inaccurate in specifying the ingredients printed on the tag may be careless in selecting the ingredients he puts into the bag.

PURPOSE OF THE FEEDINGSTUFF LAW

The chief purpose of the feedingstuff law is to protect the consumer against the inferior products which doubtless would soon appear on the market if the trade were not under state control. The law is primarily a correct-labeling act. It must not be assumed by the purchaser of feedingstuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The feedingstuff law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer, in purchasing feed from the manufacturer, and the consumer, in purchasing feed from the dealer, should make the specification that the feed delivered must comply with the New Hampshire feedingstuff law. If the feed is not registered; if the protein, fat, and crude fiber are not guaranteed; and if the ingredients of which the feed is composed are not plainly stated on the bag, or on a tag attached thereto, the purchaser is not protected by the state feedingstuff law. He then has no recourse under the feedingstuff law if the feed which he purchases is of inferior quality. The dealer who offers for sale a feedingstuff which has not been registered and which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or the patronage of the consumer. The purchaser's cooperation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time secure for himself the protection of the law. If the buyer fails to assure himself that the legal requirements have been met, he accepts the feedingstuff at his own risk. The terms used in reporting the chemical analysis of a feedingstuff are briefly defined as follows:

Protein is a collective term for a considerable group of compounds, all of which contain nitrogen. Ingredients high in protein are usually more expensive than the other ingredients, making protein the most important nutrient for consideration in determining the commercial value of a feedingstuff. The nutritional value of the proteins varies widely; therefore, a feedingstuff should contain protein from several sources to insure inclusion of all essential types.

Fat is separated from the other components of a feedingstuff by extracting the moisture-free sample with anhydrous ether. In such ingredients as the cereals, the seed-meals, and animal products, the extract is nearly pure fat. A few ingredients such as alfalfa meal contain some ether-soluble material which is not fat. When urea is present the figure for the percentage of fat found may be high as much as two-tenths per cent, due to the slight solubility of urea in anhydrous ether. When sulphur is present, the percentage of fat found is much too high, since sulphur is readily soluble in anhydrous ether.

Fiber is composed of cellulose and related compounds. Since crude fiber has little feeding value, the law requires that the maximum fiber be guaranteed rather than the minimum as in protein and fat.

It is not within the scope of this bulletin to make recommendations regarding the use of commercial feedingstuffs. The Department of Dairy Husbandry and the Department of Poultry Husbandry are continuously studying feeding problems. The following publications of these departments are free to residents of New Hampshire. Address your request to Mail Service, University of New Hampshire, Durham, New Hampshire.

Ext. Cir. 195	Adjusting Feed Costs to Reduced Milk Incomes, 4 pp.
Folder 10	The Use of Home-grown Grains in Feeding the Dairy Herd.
Press Bull. 100	Home-grown Dairy Feeds, 1 p.
Ext. Bull. 67	Turkey Production in New Hampshire, 16 pp.
Ext. Cir. 158	Feeding Chickens, 18 pp.
Ext. Cir. 250	The Home Poultry Flock, 12 pp.
Sta. Bull. 335	Protein Requirements of Chickens at Various Stages of Growth and Development II, 15 pp.
Sta. Cir. 52	Growth and Feed Standards for New Hampshire, 8 pp.
Sta. Cir. 56	Fine Versus Coarse Grit as a Feed Ingredient for Poultry, 8 pp.
Ext. Cir. 282	Dairy Calves.

While the word feedingstuff does not appear in all the above titles, no publication is included which does not discuss some aspect of the use of feedingstuffs.

HOW COST OF INSPECTION AFFECTS PRICE

The cost of a feedingstuff inspection includes the drawing and the analysis of the samples, and the publication and mailing of the annual bulletin. The funds from which these costs are paid are accumulated from the license fees which the manufacturer is required to pay annually on each brand of feedingstuff offered for sale within the state. Since manufacturing and distributing costs are finally paid by the consumer, the purchaser of feeding stuffs is interested in the effect of the cost of the inspection on the retail price per ton. A calculation based on the known costs of the inspection and the estimated retail value of the feedingstuffs sold annually shows that the cost of the inspection is only a fraction of a cent per 100-pound bag.

CONFORMITY TO THE GUARANTEES

The chemical analyses were made by the methods of the Association of Official Agricultural Chemists. No sample was drawn from less than 10 bags. Of the 604 brands analyzed, 7.4 per cent contained less than the guaranteed amount of protein; 5.8 per cent contained less than the guaranteed amount of fat, and 13.6 per cent contained crude fiber in excess of the guarantee. A comparison of these figures with those of previous years is shown in Table I..

Resolution 16, p. 14 of the Official Publication of the Association of American Feed Control Officials, reads in part "that urea is to be used only in such limited quantities as to insure the total amount present shall not exceed 3% of the (grain) ration." Eight brands contained urea as one of the ingredients. None exceeded the 3 per cent urea permitted under the resolution.

All the 48 states have feedingstuff laws. All publish an inspection report. About one-half the states indicate by different type those brands which fail by an arbitrary tolerance to conform to the guarantee. There is no common agreement what this tolerance should be. In this bulletin the analytical figures one-half per cent or more below guarantee in protein, one-fourth per cent or more below guarantee in fat, and one per cent or more above guarantee in crude fiber are printed in boldface type. The object of the bold-face type is to make it easier for the purchaser to see which brands do not come within this tolerance.

**PERCENTAGE OF SAMPLES ANALYZED
IN YEARS 1926-1948 NOT CONFORMING TO GUARANTEES**

Year	Per cent below guarantee in Protein		Per cent below guarantee in Fat		Per cent high in Crude Fiber
	Less than 0.5 per cent	0.5 per cent or more	Less than 0.25 per cent	0.25 per cent or more	
1926	8.0	16.0	4.0	10.0	6.0
1927	8.3	16.4	5.8	13.6	5.9
1928	9.1	20.7	4.3	9.3	7.9
1929	9.5	20.2	2.8	9.3	6.5
1930	4.8	13.1	4.0	8.0	3.9
1931	1.8	7.2	5.9	9.7	5.3
1932	1.8	1.4	5.0	8.1	2.8
1933	1.3	3.6	7.5	9.8	3.6
1934	3.0	3.4	3.9	7.1	9.8
1935	2.4	3.0	4.2	8.5	9.9
1936	2.9	5.2	5.5	8.3	12.2
1937	2.8	4.2	3.0	6.0	11.0
1938	2.9	8.1	9.8	10.8	11.5
1939	1.9	3.3	6.8	9.3	8.7
1940	2.9	4.0	6.2	6.7	7.5
1941	1.1	2.6	4.7	6.7	5.6
1942	2.6	3.5	3.7	4.5	7.4
1943	3.7	2.7	7.7	8.6	7.4
1944	8.2	9.0	10.7	19.7	6.9
1945	2.1	6.1	2.9	7.5	7.1
1946	8.6	17.5	2.3	8.9	14.6
1947	4.1	10.2	1.7	4.0	24.7
1948	3.6	3.8	2.3	3.5	13.6

REQUEST BY INDIVIDUALS FOR THE ANALYSIS OF FEEDINGSTUFFS

The feedingstuff law requires the Agricultural Experiment Station to analyze only samples of registered feedingstuffs drawn under the direction of the Feed Control Supervisor. It does, each year, however, analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. Frequently, the reason for requesting an analysis is that the feed is suspected of causing sickness or death of livestock or poultry. While in very rare instances the feed may have caused the trouble, disease is usually found to be the cause. Often feeders, suspecting the feed, lose valuable time in the treatment of the disease by sending a sample of the feed for analysis and waiting for the report. Losses could have been reduced had a veterinarian or poultry specialist been consulted immediately and proper treatment given promptly. The most conclusive method of determining whether or not the feed is the cause of the trouble is a biological test. Such a test can be conducted on the premises of the feeder. If the feed is suspected, confine in sanitary pens two lots of healthy chicks. Give to one lot the suspected feed and to the other lot a feed known to be good. Should the chicks receiving the suspected feed become ill and the others remain healthy, there is evidence that the feed is the cause. Under such circumstances, notify the Feed Control Supervisor and an official sample will be drawn. The official sample will be analyzed to determine if the manufacturer is responsible.

The most common reason the purchaser has for asking to have the sample analyzed is to satisfy himself whether or not the feed meets its guarantee, and if it does not, to obtain evidence upon which to base a claim for shortage. The Station can assume no responsibility for the drawing of an unofficial sample but can attest only the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feedingstuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat mill feed averaging 5 per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a shipment of a feed can only be had by drawing a core from several bags. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should

be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the large lot from which it is taken. Because of the cost of laboratory work and materials, an analysis is not usually warranted on a sample drawn from less than a one-ton lot of feed.

A one-pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent loss of fine particles and a change in the moisture content. In order that the department may have a record of the sample analyzed, and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand

Manufacturer

Address

Guarantee:

Protein

Fat

Crude Fiber

Ingredients

.....

.....

Dealer

Address

Number of bags in lot

Number of bags sampled

Price per 100 pounds

Your name

Your address

Your reason for requesting analysis

.....

A simplified registration system similar to the one in use by the State of Kansas is proposed for use in New Hampshire. The following description concerning this new system has been written by Mr. George H. Laramie, Feed Control Supervisor, and is made a part of this bulletin at his request.

NEW SIMPLIFIED REGISTRATION SYSTEM

Commencing January 1, 1949 (or for the registration year 1949), the state of New Hampshire is inaugurating a simplified registration certificate for the convenience of all concerned.

Under this system, the name of the feed to be registered and the name of the firm is typed on the form, and only one signature is required. Attached to this application blank, is one or more 8½ x 11 sheets to which is affixed a label for the feed, or if the label has not been printed, proposed copy or printer's proof may be affixed and when the label has been approved by the official the manufacturers may proceed to have his labels printed. When a change has been made in a feed and the manufacturer wishes to reregister, he merely types the word "REREGISTRATION" on the blank and lists thereunder the feed or feeds to be reregistered. This advises the official that the previous registration is to be cancelled. For new feeds to be added during the year, the word "SUPPLEMENTAL" is typed at the top, and the brands listed. This informs the official that the feeds listed are new. If a submitted label does not meet the requirements of the law and the application for this brand cannot be accepted, the control official lines out the name of this feed on the blank. By a very simple means the registered labels may be indexed on the registration cover sheet and can be located easily, rather than thumbing through a number of registrations to find a particular one. This is accomplished by numbering the attached data sheet pages and inserting in parentheses immediately after the name of the feed the page number. The large manufacturers may group their feeds under such headings as "poultry feeds," "hog feeds," etc., and at a glance one can determine the particular brands of the various classes of feed registered.

New Hampshire
APPLICATION FOR REGISTRATION OF COMMERCIAL
FEEDINGSTUFFS

No.

Date

To the Commissioner of Agriculture, State Dept. of Agriculture, Concord, N. H.:

The undersigned hereby makes application for registration—reregistration—supplemental registration of the following commercial feeding stuffs (for the period ending December '31, 19):

(List products to be reregistered under heading REREGISTRATIONS. List under heading SUPPLEMENTAL those products added during the year.)

Attached are product data sheets which have affixed thereto a label to be used on, or attached to the containers of feeding stuffs as required by paragraph 1 of Chapter 226, Revised Laws of N. H., Stock Foods Law. I hereby certify that the label or labels contain the information required by the law.

(Enclosed is in the amount of \$...... covering the registration fee for feeding stuffs. Registration fee is \$15.00 for each feeding stuffs.)

Address correspondence to:

Attention	Firm Name
Street and No.	By
City and State	Title

CERTIFICATE OF REGISTRATION

This certifies (that the registration fee has been paid and) that the above-listed products are this day registered under the provision of the New Hampshire Stock Foods law, and the sale is authorized when sold, offered or exposed for sale when labeled and other-wise in compliance with the law, until cancelled for cause (for the period beginning with the actual date of registration and continuing until December 31, unless the registration of any feed or feeds are cancelled).

NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE

.....
Commissioner

Date

INSTRUCTIONS

Application for Registration: Submit cover sheet in duplicate. One copy will be returned as your Certificate of Registration.

Product Data Sheet: One or more (8½" x 11") sheets, to which is affixed a label, or if the label has not been printed, proposed copy or printer's proof may be affixed, for each product to be registered, must accompany the application. Number the attached data sheet pages and insert the page number in parentheses on the cover sheet immediately after the name of the feed.

Brands: List these on the application cover sheets under the headings and in the order "Reregistrations" and "New Registrations." (Reregistrations are renewals from the previous year. New Registrations are brands not registered the previous year.)

Reregistrations (Renewals of registrations) require that all cover sheets be renewed. It is not necessary to renew Product Data Sheets except with respect to information which is different from that furnished when the feeds were registered or last reregistered.

Labeling: All labeling must be in accordance with New Hampshire Stock Foods law, and all information on cover sheets and data sheets must comply with the above law.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Acme-Evans Co., Inc.						
Indianapolis, Indiana						
Acme Hominy	9.00	10.50	7.00	8.75	6.00	4.35
Acme Wheat Standard Middlings with Screenings	14.00	14.45	3.00	4.31	9.50	9.14
Albers Milling Co.						
Seattle, Washington						
Albers Calf Manna	25.00	26.57	4.00	4.84	6.00	4.90
Allied Mills, Inc.						
Chicago, Illinois						
Economy 16% Dairy Ration	16.00	18.48	3.00	3.69	13.00	10.77
Economy 20% Dairy Ration	20.00	20.22	3.00	3.42	12.00	11.49
Economy Laying Mash	18.00	19.92	3.00	4.43	8.00	7.99
June Pasture	10.00	12.69	0.05	0.52	26.00	22.02
Sugarine 20% Dairy Ration	20.00	21.19	3.00	4.51	12.00	11.97
Wayne All Mash Breeder	15.00	17.07	2.50	4.35	8.00	7.87
Wayne All Mash Egg	15.00	15.80	2.50	4.58	8.00	7.79
Wayne All Mash Grower	14.00	16.42	2.50	4.75	8.00	7.86
Wayne Breeder Mash	20.00	21.05	3.00	4.89	8.00	7.58
Wayne Calf Meal	24.00	24.47	3.00	5.01	9.00	6.33
Wayne Chick and Broiler Ration ...	20.00	21.06	3.00	4.59	8.00	7.09
Wayne Chick Feed	9.00	9.46	2.00	4.30	4.00	2.67
Wayne Chick Starter	20.00	21.10	3.00	4.80	7.00	6.70
Wayne Complete Calf Feed	16.00	17.69	3.00	3.80	11.00	8.09
Wayne Complete Calf Starter	16.00	17.47	3.00	3.79	11.00	8.43
Wayne 16% Dairy Ration	16.00	18.91	3.00	4.57	10.00	7.59
Wayne 20% Dairy Ration	20.00	23.47	3.00	4.38	10.00	7.66
Wayne 20% Dairy Feed	20.00	21.36	3.00	4.41	10.00	7.75
Wayne Dog Food Blox	22.00	23.16	4.00	5.06	5.00	3.27
Wayne Dog Food Krums	22.00	24.25	4.00	5.51	5.00	3.59
Wayne Egg Mash	20.00	21.58	3.00	4.82	8.00	7.96
Wayne Fitting Ration	12.00	13.49	3.00	4.25	10.00	7.12
Wayne Flushing Mash	20.00	20.01	3.00	3.87	7.00	4.98
Wayne Growing Mash	18.00	19.79	3.00	4.78	8.00	7.98
Wayne Horse Feed	9.00	9.85	2.50	2.90	12.00	6.39
Wayne 26% Mash Supplement	26.00	28.67	3.00	4.65	10.00	9.09
Wayne Mink Meal	22.00	23.68	4.00	5.73	7.00	5.21
Wayne Pork Maker	14.00	15.54	3.00	4.08	8.00	7.90
Wayne Rabbit Pellets	13.00	14.80	3.00	4.07	16.00	12.63
Wayne Ranch Meal	17.00	18.78	3.50	3.77	7.50	7.46
Wayne Spring Pasture Poultry Pellets	27.00	28.37	3.00	4.75	12.00	8.29
Wayne Turkey Breeder Mash	22.00	23.42	3.00	5.01	8.00	7.86
Wayne Turkey Growing Mash	20.00	21.36	3.00	4.77	8.00	7.88
Wayne Turkey Starting Mash	25.00	25.83	3.00	4.59	8.00	7.46
Amalgamated Sugar Co.						
Ogden, Utah						
Molasses Beet Pulp	6.50	7.71	0.30	0.22	18.00	16.22
American Flours, Inc.						
Newton, Kansas						
American Ace Wheat Bran	14.50	15.94	3.50	4.77	11.00	9.91
Archer-Daniels-Midland Co.						
Minneapolis, Minnesota						
Archer Quality O. P. 34% Protein Linseed Oil Meal	34.00	34.32	3.50	4.30	9.00	8.62

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand

	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Arcady Farms Milling Co. Chicago, Illinois						
Wonderfat Pellets with Condensed Buttermilk	15.00	13.46	4.50	3.69	8.00	6.85
Arrow Mills, Inc. Geneva, New York						
Kangaro Standard Wheat Bran	15.00	16.11	4.00	3.76	12.00	5.48
Ashcraft-Wilkinson Co. Atlanta, Georgia						
Cow-Eta Brand 41% Protein Cotton- seed Meal	41.00	41.07	5.00	7.10	13.00	11.59
E. W. Bailey & Co. Montpelier, Vermont						
Bailey's Pennant Brand All Purpose Mash	18.00	18.21	3.00	3.95	7.00	7.67
Bailey's Pennant Brand Breeder Mash	20.00	21.89	3.50	5.13	7.00	6.52
Bailey's Pennant Brand Calf Ration	15.00	17.08	3.00	4.01	8.50	8.40
Bailey's Pennant Brand Calf Starter Pellets	23.00	25.74	3.80	4.25	8.00	5.64
Bailey's Pennant Brand Chick-Start- er-Broiler	20.00	21.45	3.50	4.52	7.00	6.63
Bailey's Pennant Brand Complete Breeder	16.00	17.60	3.50	4.51	7.00	6.97
Bailey's Pennant Brand Complete Egg Ration	16.00	16.64	3.50	4.78	7.50	7.37
Bailey's Pennant Brand Complete Grower	15.00	16.64	3.50	4.23	7.50	7.13
Bailey's Pennant Brand 16% Dairy Ration	16.00	18.08	3.50	4.35	10.00	8.82
Bailey's Pennant Brand 18% Dairy Ration	18.00	19.57	3.50	4.51	9.00	8.28
Bailey's Pennant Brand 20% Dairy Ration	20.00	21.19	3.50	3.80	8.00	8.25
Bailey's Pennant Brand Fitting Ration	14.00	15.76	3.50	4.57	11.00	9.75
Bailey's Pennant Brand Freshening Ration	10.00	12.69	1.50	4.18	15.00	11.51
Bailey's Pennant Brand Growing Mash	18.00	20.49	3.50	4.29	7.50	6.43
Bailey's Pennant Brand Horse Feed	10.50	12.43	3.00	4.23	9.00	8.34
Bailey's Pennant Brand Laying Mash	20.00	20.70	3.50	4.06	7.50	7.05
Bailey's Pennant Brand Peerless 16	16.00	17.29	4.00	3.27	10.00	7.76
Bailey's Pennant Brand Pig Feed ...	17.00	18.65	3.00	3.63	7.00	7.17
Bailey's Pennant Brand Rabbit Pellets	16.00	17.51	3.00	3.77	12.00	9.98
Bailey's Pennant Brand Stock Feed	9.50	10.81	3.00	3.40	12.50	15.92
Bailey's Pennant Brand Succulent Feed	10.00	11.16	2.00	3.67	17.00	16.23
Bailey's Pennant Brand Super Pellets	24.00	25.74	3.00	5.96	7.00	5.78
Bailey's Pennant Brand 32% Supple- ment	32.00	35.46	4.00	5.29	6.00	7.98
Bailey's Pennant Brand Turkey Fat- tender	18.00	17.78	3.00	4.83	6.00	7.07
Bailey's Pennant Brand Yankee 16	16.00	16.85	3.50	3.12	13.00	11.41
Bailey's Pennant Brand Yankee 20 Daily Ration	20.00	21.67	3.50	3.37	14.00	11.54
Provender	10.00	10.85	3.50	4.50	8.00	7.59

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Battle Creek Dog Food Co.						
Battle Creek, Michigan						
Miller's Dog Meal	22.00	20.49	4.00	3.83	4.00	2.57
Miller's Kibbles	22.00	24.03	3.00	2.79	3.00	1.42
Beacon Milling Co., Inc.						
Cayuga, New York						
Auburn "20"	20.00	21.93	3.25	4.02	10.00	7.35
Be-Co-Lass	11.00	11.25	1.00	2.53	16.00	12.31
Beacon "20"	20.00	20.57	3.50	4.18	9.00	8.25
Beacon Battery Broiler Pellets	24.00	23.20	4.00	4.77	5.00	4.49
Beacon Breeders Mash	22.00	23.90	3.50	5.14	7.50	7.45
Beacon Broiler Feed	20.00	21.89	3.00	4.66	7.00	4.76
Beacon C-C Pellets	15.00	16.15	1.00	10.01	5.00	4.63
Beacon Calf Grain	14.00	14.75	4.00	4.47	10.00	9.00
Beacon Calf Starter	19.00	20.84	3.50	4.61	7.00	5.94
Beacon Cayuga Horse Feed	10.00	12.56	2.50	3.87	9.00	8.05
Beacon Complete Starting Ration ...	20.00	21.76	3.50	4.54	6.50	5.33
Beacon "22" Egg Mash	22.00	24.03	3.50	4.97	7.50	7.03
Beacon Fitting Ration	14.00	15.63	3.50	4.03	8.00	8.47
Beacon Fleshing Pellets	20.00	21.80	3.50	4.69	7.00	6.59
Beacon Goat Ration	16.00	19.35	3.50	4.34	10.00	7.76
Beacon Growing Mash	18.00	20.18	3.50	4.23	7.50	6.34
Beacon Hog Feed	18.00	20.31	3.50	5.13	7.00	7.38
Beacon Pheasant Grower	28.00	30.42	3.00	5.25	6.00	6.95
Beacon Poultry Fitting Ration	12.00	12.34	3.00	3.59	8.00	7.76
Beacon Test Cow Ration	18.00	20.40	4.00	3.92	9.00	8.03
Beacon Turkey and Game Bird Breed- er Mash	22.00	23.36	3.50	5.19	7.50	7.24
Beacon Turkey and Game Bird Fitting Ration	10.00	11.42	3.00	3.15	9.00	7.11
Beacon Turkey and Game Bird Flush- ing Mash	15.00	16.02	1.00	8.89	5.00	4.82
Beacon Turkey Growing Mash	20.00	22.59	3.00	5.09	7.50	7.23
Bisbee Linseed Co.						
Philadelphia, Pennsylvania						
Bisbee 32% Old Process Linseed Meal	32.00	34.89	3.50	6.28	10.00	8.40
Black Rock Milling Corp.						
Black Rock, New York						
Economy 18% Dairy Ration	18.00	20.92	2.50	3.42	12.00	10.53
Blanton Mills						
St. Louis, Missouri						
Blanco Soybean Oil Meal	41.00	42.03	3.50	4.51	7.00	5.91
Blatchford Calf Meal Co.						
Waukegan, Illinois						
Blatchford Complete Calf Ration	19.00	19.13	3.00	4.08	9.50	10.80
Blatchford Calf Meal	25.00	26.75	3.50	3.39	6.00	7.06
Borden Co.						
New York, New York						
Ration-ayd Vam Pros	35.00	38.96	1.00	6.32	7.50	5.10
S. J. Cherry & Sons, Ltd.						
Preston, Canada						
Wheat Bran	14.00	17.25	3.50	4.61	11.50	8.55
Wheat Shorts	15.00	15.76	5.00	4.26	8.00	7.97

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Clinton Industries, Inc. Clinton, Iowa						
Clinton Corn Gluten Feed	23.00	23.73	2.00	2.44	8.50	7.73
Clinton Corn Gluten Meal	41.00	41.55	1.00	2.56	6.00	3.12
Clyde Renco Milling Corp. Clyde, New York						
Ground Corn and Oats	9.00	10.02	3.00	3.98	12.00	10.40
Coatsworth & Cooper, Ltd. Toronto, Canada						
C and C Wheat Bran	15.00	17.29	3.50	4.69	11.50	9.46
Commander-Larabee Milling Co. Minneapolis, Minnesota						
Sunfed Wheat Bran with Ground Screenings	14.00	15.54	4.00	5.26	12.00	10.81
Sunfed Wheat Standard Middlings with Ground Wheat Screenings ...	15.00	17.42	4.00	5.31	9.00	8.16
Consolidated Rendering Co. Boston, Massachusetts						
Corenco Fish Meal	60.00	54.22	5.00	10.29		
Corenco 50% Meat and Bone Scrap ..	50.00	47.87	6.00	7.68		
Corn Products Refining Co. New York, New York						
Diamond Corn Gluten Meal	41.00	42.16	1.00	1.51	6.00	3.55
Corn Products Sales Co. Buffalo, New York						
Buffalo Corn Gluten Feed	23.00	24.96	2.00	2.70	8.50	7.86
Charles M. Cox Co. Boston, Massachusetts						
Provender	9.00	10.28	3.00	4.09	8.00	5.49
Utility 20 Dairy Ration	20.00	23.47	3.00	2.65	11.00	10.86
Wirthmore Breeder Mash	20.00	20.70	3.00	4.24	7.00	6.49
Wirthmore Calf Starter Meal	22.00	23.25	3.00	4.37	6.00	6.46
Wirthmore Calving Ration	14.00	15.32	4.00	4.86	10.00	9.86
Wirthmore Complete Breeder Ration	15.00	17.29	3.00	4.11	6.00	5.95
Wirthmore Complete Egg Ration ...	15.00	17.03	3.00	4.40	6.00	6.24
Wirthmore Complete Growing Ration Pelleted	14.50	15.94	3.00	4.21	6.00	5.22
Wirthmore 16 Dairy Ration	16.00	16.94	3.50	4.32	9.00	7.55
Wirthmore 20 Dairy Ration	20.00	22.72	3.50	4.54	8.00	6.71
Wirthmore Dairy Succulent	9.00	11.38	2.50	3.32	14.00	12.96
Wirthmore Dog Food	25.00	27.36	4.00	5.38	6.00	4.79
Wirthmore Fattening Pellets	15.00	16.02	3.50	4.19	6.00	4.73
Wirthmore 14% Fitting Ration	14.00	15.45	4.00	4.74	8.00	7.90
Wirthmore Goat Ration	16.00	17.91	4.00	4.21	8.00	6.05
Wirthmore Growing Mash	17.50	19.13	3.00	4.69	7.00	6.57
Wirthmore Hi-Ener-G Starter and Broiler Ration	20.00	23.82	3.00	3.13	4.00	3.99
Wirthmore Horse Feed	10.00	10.81	3.25	4.07	9.00	7.25
Wirthmore Laying Mash	20.00	22.33	3.00	3.99	7.00	6.26
Wirthmore Mash with Sulfaguanidine	20.00	22.33	3.00	3.54	6.50	5.51
Wirthmore Pig and Hog Feed	17.00	18.87	4.00	4.70	8.00	6.70
Wirthmore Poultry Flush	15.00	18.65	3.00	2.48	6.00	4.96
Wirthmore Rabbit Pellets	14.00	16.11	3.00	4.38	12.00	10.33
Wirthmore 16 Record Ration	16.00	18.43	3.50	4.86	9.00	8.38
Wirthmore 20 Record Ration	20.00	22.94	3.50	4.41	9.00	7.69

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand						
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Charles M. Cox Co. (Concluded)						
Wirthmore Standard 16 Dairy Ration	16.00	17.38	3.00	4.45	10.00	7.76
Wirthmore Starter and Broiler Ration	20.00	20.66	3.00	3.64	6.50	5.21
Wirthmore Stock Feed	10.00	11.47	3.00	4.28	11.00	9.47
Wirthmore Super Pellets	20.00	21.05	3.00	4.20	8.00	6.50
Wirthmore Turkey Breeder	24.00	23.53	3.00	4.38	7.50	5.92
Wirthmore Turkey Fattening Ration	16.00	18.08	3.00	3.78	7.00	5.59
Wirthmore Turkey Growing Pellets .	20.00	22.50	3.00	4.14	7.00	6.27
Wirthmore Turkey Starting Pellets .	25.00	28.19	3.00	3.19	7.00	6.10
Wirthmore Twin-Mix Calf Ration ...	16.00	21.62	4.00	4.49	8.00	6.97
Dawe's Manufacturing Co.						
Chicago, Illinois						
Dawe's Vitamelk Base	34.00	35.29	3.00	5.25	6.00	4.53
Dawe's Vitamelk Base Animal Type .	34.00	36.51	2.00	6.99	4.50	4.75
Delaware Mills						
Deposit, New York						
Delaware Breeder Mash	20.00	20.31	3.00	5.16	8.00	7.02
Delaware Complete Growing Mash ..	15.00	16.37	3.00	4.13	7.00	8.29
Delaware Complete Laying Mash ...	15.00	19.17	3.00	5.16	8.00	8.37
Delaware Egg Mash	18.00	20.44	3.00	4.86	9.00	8.06
Delaware Fitting Ration	14.00	16.72	4.00	2.93	10.00	8.08
Delaware Horse Feed	9.00	10.59	3.00	3.57	10.00	9.01
Delaware Pig and Hog Feed	16.00	18.04	4.00	4.45	8.00	7.98
Delaware Stock Feed	9.00	10.07	3.00	3.02	15.00	13.86
Delaware Sweet 16% Dairy Feed	16.00	21.10	3.50	4.16	11.00	8.44
Delaware Test Ration	18.00	18.91	4.50	4.51	8.00	6.59
Indian Sweet 18% Dairy Feed	18.00	21.66	3.00	4.97	12.00	9.68
Dietrich & Gambrill, Inc.						
Frederick, Maryland						
D & G Pig and Hog Meal	18.00	18.78	3.50	4.16	9.00	7.94
Pen Mar 20% Dairy	20.00	20.18	3.50	3.81	10.00	7.93
Pen Mar Horse and Stock Feed	10.00	10.46	3.00	3.94	12.00	7.01
Dodge Grain Co.						
Methuen, Massachusetts						
Dodge Starting Growing Mash	16.00	18.34	3.00	4.26	9.00	8.98
Eastern States Farmers' Exchange, Inc.						
West Springfield, Massachusetts						
Eastern States All Mash Egg	15.50	17.16	3.00	3.93	8.00	6.36
Eastern States All Mash Developer ..	15.50	15.15	3.00	4.28	7.50	5.98
Eastern States Breeder Concentrate Pellets	20.00	22.77	3.50	5.34	7.50	6.68
Eastern States Calf Starter	23.00	23.68	3.50	3.87	7.00	5.21
Eastern States Calving Ration	11.50	12.25	2.00	2.49	18.00	15.01
Eastern States Developer	20.00	20.84	2.50	3.31	8.00	6.52
Eastern States Dog Feed	24.00	24.96	4.00	4.97	4.50	4.00
Eastern States Egg Mash	20.00	19.64	3.00	4.16	8.00	7.01
Eastern States Fitting Ration	14.00	14.10	3.50	4.38	10.00	7.69
Eastern States Flushing	18.50	20.79	1.50	2.80	5.00	4.73
Eastern States Fulpail	20.00	21.36	4.00	4.29	9.00	7.21
Eastern States Highland 18	18.00	20.84	2.50	3.24	11.50	11.29
Eastern States Highland All Mash ..	15.50	17.38	2.00	3.63	8.00	6.63
Eastern States Horse Feed	10.50	11.56	3.00	3.84	8.00	6.59
Eastern States Milkmore 16	16.00	17.99	4.00	4.46	9.00	7.45
Eastern States Minuteman Mash	20.00	21.27	3.00	3.93	4.00	3.02

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Eastern States Farmers' Exchange (Concluded)						
Eastern States Pacemaker	20.00	20.62	3.00	3.47	4.00	2.89
Eastern States Pig Starter and Breeder	20.00	19.79	3.00	3.82	7.00	6.82
Eastern States Pork Builder	15.00	15.50	3.00	3.58	6.50	5.02
Eastern States Sheep and Goat	16.00	17.16	3.00	3.47	8.00	6.10
Eastern States Starting and Broiler	20.00	20.05	3.00	4.32	7.00	6.48
Eastern States Stock Feed	12.00	13.53	3.00	4.06	7.00	5.72
Eastern States 32% Supplement	32.00	34.15	4.00	4.68	8.00	7.12
Eastern States Sweepstakes	16.00	17.69	3.50	4.11	8.00	6.41
Eastern States Turkey-Breeder Pellets	20.00	20.84	3.00	4.52	7.00	6.38
Eastern States Turkey-Grower Pellets	20.00	20.92	2.50	4.25	7.00	6.08
Eastern States Turkey Starter	25.00	26.97	2.50	3.97	7.50	6.72
Elm City Grain Co. Keene, New Hampshire						
Elm Tree All Mash Breeder	16.00	19.39	3.50	5.14	8.00	8.49
Elm Tree All Mash Grower	15.00	18.34	3.50	4.40	8.00	7.19
Elm Tree All Mash Laying	16.00	17.95	3.50	4.68	8.00	6.74
Elm Tree Broiler Mash	22.00	23.16	3.50	4.27	7.50	6.13
Elm Tree Chick Starter	20.00	20.75	4.00	4.65	8.00	7.72
Elm Tree Dairy Feed	18.00	18.25	3.50	4.40	11.00	7.72
Elm Tree Fitting Ration 14%	14.00	14.45	3.50	4.73	11.00	8.57
Elm Tree Growing Mash	18.00	19.48	3.50	4.97	8.00	7.66
Elm Tree Laying Mash	19.00	20.70	3.50	4.07	9.00	7.89
Elm Tree Pig and Hog Feed	14.00	14.71	4.00	4.21	10.00	7.56
Elm Tree Provender	10.00	12.21	3.50	5.26	8.00	7.49
Elmore Milling Co., Inc. Oneonta, New York						
Elmore Breeder Mash	20.00	17.62	4.00	4.52	8.00	8.49
Elmore Complete Layer and Breeder	15.00	17.12	3.50	4.58	8.00	9.01
Elmore Complete Market Egg Mash	15.00	16.02	3.50	4.81	8.00	7.68
Elmore Milk Grains "Twenty"	20.00	19.41	4.00	4.84	10.00	9.17
Elmore Sweet Digesto Dairy Feed ..	14.00	16.29	3.00	3.19	11.00	13.40
John W. Eshelman & Sons Lancaster, Pennsylvania						
Eshelman Conestoga 20 Dairy Feed ..	20.00	21.75	4.00	4.11	11.00	8.93
Eshelman Dog and Puppy Food	23.00	26.18	4.75	4.18	4.00	3.76
Eshelman Pennsy 16 Dairy Feed	16.00	19.39	3.00	3.63	11.00	9.42
Eshelman Pennsy Laying Mash	20.00	22.77	3.00	4.43	9.00	6.36
Eshelman Red Rose Breeder Mash	20.00	22.46	4.00	4.23	6.50	6.47
Eshelman Red Rose Broiler Ration ..	20.00	22.37	3.75	3.93	7.50	5.63
Eshelman Red Rose Chick Starter	20.00	23.82	3.50	4.06	6.50	6.24
Eshelman Red Rose Complete Calf Grower	14.00	18.61	3.50	3.47	8.00	7.25
Eshelman Red Rose 16 Dairy Feed ..	16.00	17.95	4.00	4.24	11.00	8.26
Eshelman Red Rose Fitting Ration ..	12.00	12.82	4.00	3.68	7.00	6.71
Eshelman Red Rose Growing Mash ..	18.00	21.49	3.50	4.23	7.50	6.74
Eshelman Red Rose 85 Horse Feed ..	9.00	10.68	3.00	4.12	10.00	7.24
Eshelman Red Rose Laying Mash	20.00	23.12	3.50	3.89	7.50	7.29
Eshelman Red Rose Rabbit Feed Pelleted	14.00	14.01	3.50	3.92	12.00	9.41
Eshelman S-O-S	11.00	12.69	2.00	2.80	15.00	14.96

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Farmers Feed Co.						
New York, New York						
Bull Brand Dried Brewers Grains ...	26.00	25.78	5.00	6.83	17.00	15.22
Federal Mill, Inc.						
Lockport, New York						
Dairy Maid Soft Winter Wheat Bran	13.50	13.57	3.50	3.84	13.00	9.74
Dairy Maid Wheat Flour Middlings with Ground Wheat Screenings ...	13.00	14.93	3.00	4.18	6.00	4.85
Dairy Maid Wheat Mixed Feed	13.00	13.84	3.50	3.38	8.50	7.73
Emergency Wheat Mixed Feed	12.50	13.79	3.50	3.93	10.50	8.20
Lucky Hard Wheat Bran	15.00	16.77	3.50	5.10	12.00	10.89
Lucky Hard Wheat Standard Middlings with Ground Wheat Screenings	15.00	18.78	4.00	5.23	9.50	6.65
Lucky Wheat Red Dog	14.00	17.43	2.50	4.15	4.00	2.64
Fowler Brothers						
Suncook, New Hampshire						
Fowler's 20% Baby Chick Starter ...	20.00	21.80	3.50	4.15	8.00	6.54
Fowler's 20% Breeder Mash	20.00	20.53	4.00	4.93	8.00	7.69
Fowler's Complete Breeder Mash ...	15.00	17.73	3.00	5.33	8.00	7.24
Fowler's Complete Egg Mash	15.00	19.13	3.00	4.43	10.00	9.16
Fowler's 18% Growing Mash	18.00	19.22	3.50	4.02	8.00	7.34
Sun Valley 16% Dairy Feed	16.00	17.60	3.00	3.46	11.00	10.98
General Mills, Inc.						
Minneapolis, Minnesota						
Dried Beet Pulp	7.00	9.54	0.30	0.46	22.50	21.91
Farm Service Horse Feed	9.00	10.37	3.00	4.03	9.50	7.51
Farm Service Laying Mash	20.00	21.27	3.50	5.06	8.50	7.05
Farm Service Stock Feed	8.50	8.76	3.50	3.10	12.50	11.80
Larro Broiler Feed	20.00	20.31	3.50	3.90	7.00	5.97
Larro Calf Builder	24.00	25.17	3.50	4.27	6.50	4.41
Larro 32% Cattle Supplement	32.00	33.01	2.50	3.12	10.00	9.49
Larro Chick Builder	19.00	19.87	3.50	4.37	7.00	6.31
Larro 32% Dairy Concentrate	32.00	33.14	3.00	4.89	11.00	8.03
Larro 16% Dairy Feed	16.00	17.12	3.00	3.97	12.00	8.63
Larro 20% Dairy Feed	20.00	24.56	3.00	4.55	12.00	5.52
Larro Dog Food	24.50	26.70	4.50	4.88	6.00	5.52
Larro Egg Mash	20.00	22.24	3.50	3.76	8.00	7.65
Larro Green Pellets for Rabbits	15.00	19.00	2.00	3.65	19.00	15.49
Larro Mash Concentrate	32.00	34.02	3.50	3.52	7.50	7.08
Larro Poultry Breeder Mash	20.00	22.07	3.50	3.78	8.00	7.47
Larro Sow and Pig Builder	17.50	19.17	3.50	3.94	8.00	7.28
Larro Turkey Breeder Mash	20.00	20.70	3.50	4.15	8.00	6.32
Larro Turkey Builder	24.00	26.05	3.50	4.27	7.50	6.62
Larro Turkey Finisher	27.00	29.15	3.50	3.15	7.50	7.63
Medium Ground Oats	12.00	13.27	4.50	5.06	13.00	12.74
Oat Mill Feed	3.50	3.09	1.00	1.02	32.50	34.49
Vigor 16% Dairy Feed	16.00	17.69	3.00	3.46	12.00	10.53
Vigor 20% Dairy Feed	20.00	18.91	3.50	3.75	12.00	12.46
Vigor Hog Feed	15.00	19.61	3.00	5.01	7.00	6.75
Vigor Laying Mash	18.00	18.78	3.00	5.06	11.00	10.48
Washburn's Gold Medal Fancy Wheat Mixed Feed	15.00	15.98	3.50	4.61	7.50	6.83
Washburn's Gold Medal Hard Wheat Bran and Wheat Screenings	14.00	15.54	3.50	4.15	12.00	10.12

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
General Mills, Inc. (Concluded)						
Washburn's Gold Medal Hard Wheat Standard Middlings and Wheat Screenings	15.00	17.42	4.00	4.95	9.50	8.84
Glidden Company						
Chicago, Illinois						
Glidden 4 Hi Brand 44% Protein Soy- bean Oil Meal	44.00	45.18	0.50	0.94	7.00	6.01
D. H. Grandin Milling Co.						
Jamestown, New York						
Grandin's All Mash Grower (Pellets)	14.00	15.89	3.00	4.50	8.00	8.66
Grandin's All Mash Layer (Pellets)	15.00	17.43	3.00	4.49	8.00	8.11
Grandin's Breeder Mash	20.00	21.06	3.00	4.64	8.00	8.96
Complete Chick Starter	20.00	21.36	3.00	4.11	8.00	6.33
Grandin's 14 Fitting Ration	14.00	19.61	3.50	4.37	10.00	7.91
Grandin's Fleshing Pellets	15.00	16.73	3.50	4.47	8.00	7.68
Grandin's Growing Mash	18.00	19.74	3.00	4.38	8.00	9.08
Grandin's Hi-Pro Pellets	20.00	20.75	3.00	4.35	8.00	9.30
Grandin's Horse Feed	9.50	10.50	3.50	4.25	11.00	8.13
Grandin's Laying Mash	20.00	23.55	3.00	4.39	8.00	9.38
Grandin's 16 Milk Maker	16.00	17.95	3.50	4.68	10.00	8.01
Grandin's 20 Milk Maker	20.00	21.41	3.50	4.78	10.00	8.09
Grandin's Pig and Hog Ration	18.00	19.48	3.50	3.94	10.00	5.63
Grandin's Rabbit Pellets	17.00	18.74	3.00	4.37	10.00	9.27
Grandin's Start-to-Finish Mash	18.00	19.92	3.00	4.22	8.00	8.56
Grandin's Starter and Broiler Mash ..	20.00	21.19	3.00	4.63	8.00	7.99
Grandin's Stock Feed	9.00	10.02	4.00	3.63	12.00	7.89
Grandin's Succulent Feed	9.00	9.98	1.00	3.04	19.00	15.03
Grandin's Complete Broiler Ration ..	20.00	21.80	3.00	3.81	8.00	6.68
Ground Corn and Oats	9.00	12.25	4.00	4.95	11.00	9.38
Hales & Hunter Co.						
Chicago, Illinois						
College 16 Dairy	16.00	18.25	3.00	3.43	10.00	7.06
College Horse Feed	9.00	10.72	2.50	4.37	10.00	7.97
Havana Pellets	17.50	19.04	3.00	4.44	6.00	5.63
Pioneer Calf Starter	18.00	22.55	2.50	4.81	10.00	6.92
Pioneer 14 Dairy	14.00	17.55	3.00	4.98	9.00	8.11
Pioneer 15 Dairy	15.00	18.39	3.00	5.24	9.00	8.10
Pioneer 18 Dairy	18.00	21.05	3.00	4.97	9.00	8.63
Pioneer Dairy Bull	12.00	14.75	3.00	4.25	12.00	7.92
Pioneer Dry and Freshening	12.00	15.59	2.50	4.42	10.00	9.67
Pioneer Pelleted Flaked 15 Dairy ...	15.00	16.64	3.00	3.69	9.00	7.60
Red Comb All Mash Breeder	16.00	21.23	3.50	4.14	8.00	6.23
Red Comb All Mash Layer	16.00	21.40	3.00	4.32	6.00	6.72
Red Comb Breeder Mash	18.00	22.42	3.00	5.25	7.00	6.73
Red Comb Chick Producer	24.00	25.65	3.50	3.62	6.00	4.57
Red Comb Chick Starter	20.00	22.90	3.00	4.53	6.00	5.72
Red Comb Egg Mash	20.00	22.11	3.00	4.50	7.00	6.98
Red Comb Turkey Breeder	21.00	22.46	3.00	4.61	7.50	6.48
Hood Mills Co.						
Baltimore, Maryland						
Hood's Pulverized Grain	12.00	12.34	2.00	3.25	14.00	14.80
Pulverized Hood	12.00	11.80	2.00	2.86	13.00	14.92
E. C. & W. L. Hopkins, Inc.						
Greenfield, New Hampshire						
Granite State Chick Starter	20.00	22.94	3.00	4.60	6.50	6.72

* Protein and fat not less than, crude fiber not more than.

Manufacturer	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
E. C. & W. L. Hopkins, (Concluded)						
Granite State Complete Growing Mash	15.00	18.65	3.00	4.50	7.00	8.20
Granite State Complete Mash	15.00	17.25	3.00	5.27	7.00	7.70
Granite State 20% Dairy Feed	20.00	22.24	4.00	4.27	10.00	8.34
Granite State Egg Mash	20.00	19.79	4.00	4.85	7.50	7.93
Granite State Hog Ration	17.50	18.26	3.00	6.03	7.00	7.81
Granite State Horse Feed	10.00	12.82	4.00	3.42	8.00	5.73
Granite State Stock Feed	9.00	9.80	4.00	3.52	10.00	5.12
Page 16% Dairy	16.00	19.96	4.00	4.96	9.00	8.26
Page Dairy	20.00	20.71	4.00	4.71	9.00	8.15
Hunter Milling Co.						
Wellington, Kansas						
Wheat Gray Shorts and Wheat Screenings	16.00	15.13	3.50	4.38	6.00	6.53
Wheat Bran	14.50	14.51	3.50	4.33	11.00	9.86
International Milling Co.						
Minneapolis, Minnesota						
Blackhawk Wheat Bran with Ground Wheat Screenings	15.00	14.74	2.50	3.90	12.00	9.37
Blackhawk Wheat Red Dog	15.00	17.95	2.00	4.30	4.00	3.27
Blackhawk Wheat Standard Middlings with Ground Wheat Screenings ...	16.00	16.20	3.00	4.74	9.00	8.13
Ralph P. Johnson & Son						
Potter Place, New Hampshire						
Johnson's Chick Starter	16.00	17.82	3.00	4.95	10.00	6.69
Johnson's Complete Laying Mash- ...	15.00	16.03	3.00	4.35	8.00	7.33
Johnson's Dairy Feed	16.00	18.25	3.00	4.20	9.00	7.84
Johnson's Growing Mash	14.00	17.60	3.50	4.59	9.00	6.88
Johnson's Mash Feed	16.00	17.60	4.00	4.64	8.00	6.24
Johnson's Pig and Hog Feed	15.00	17.21	2.50	4.29	7.00	6.13
I. S. Joseph Co., Inc.						
Minneapolis, Minnesota						
Molasses Dried Beet Pulp	7.00	8.45	0.25	0.27	18.00	14.26
Kasco Mills, Inc.						
Waverly, New York						
Kasco All Mash Chick Starter	18.00	19.61	3.00	4.07	6.50	6.45
Kasco All Mash Grower	15.00	17.25	3.00	4.52	7.00	6.74
Kasco All Mash Laying and Breeding Ration	15.00	16.37	3.00	4.44	7.50	6.57
Kasco Beatsall Milk Grains 16% ...	16.00	19.79	3.50	5.74	10.00	8.99
Kasco Beatsall Milk Grains 20% ...	20.00	21.58	3.50	4.27	10.00	8.12
Kasco Body Builder	15.00	17.77	3.00	4.23	7.00	6.29
Kasco Broiler-Starter Ration	18.00	19.74	3.00	4.08	7.50	6.45
Kasco Egg Producer	20.00	20.57	3.00	4.45	7.50	7.17
Kasco Fitting Ration	14.00	16.11	3.50	4.25	10.00	8.17
Kasco Growing Mash	18.00	20.01	3.00	4.35	7.50	7.02
Kasco Horse Feed	10.00	10.11	2.50	3.26	12.00	7.64
Kasco Laying and Breeding Mash ...	20.00	20.18	3.00	4.29	7.50	6.89
Kasco Pig Hog Feed	20.00	21.93	3.50	4.93	8.00	7.17
Kasco Poultry Flushing Mash	17.00	19.17	3.00	4.19	6.00	6.29
Keene Grain Co.						
Keene, New Hampshire						
Keene Brand 16% All-In-One Hog Feed	16.00	17.94	3.50	5.50	7.00	7.97

* Protein and fat not less than, crude fiber not more than.

Manufacturer	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Keene Grain Co. (Concluded)						
Keene Brand 20% Dairy Feed	20.00	22.55	3.50	3.69	8.00	7.22
Keene Brand 18% Growing Mash ...	18.00	18.43	3.50	5.61	6.50	6.49
Keene Brand 20% Laying Mash	20.00	21.27	3.50	4.47	6.50	6.96
Kennel Food Supply Co.						
Fairfield, Connecticut						
Cero-Meato Brand Dog Food	21.00	23.86	2.00	2.48	3.00	2.23
Kraft Foods Co.						
Chicago, Illinois						
Kraylets	20.00	21.10	4.50	7.84	3.00	1.98
Charles A. Krause Milling Co.						
Milwaukee, Wisconsin						
Badger Yellow Hominy Feed	10.00	10.77	5.00	6.19	6.00	4.93
Larabee Flour Mills Co.						
Kansas City, Missouri						
Sunfed Winter Wheat Bran with Ground Wheat Screenings	15.00	16.20	3.50	4.42	11.00	10.01
L. B. Lovitt & Co.						
Memphis, Tennessee						
"Lovit Brand" 41% Protein Cotton- seed Meal	41.00	42.73	5.00	5.65	13.00	10.09
Maine Fish Meal Co.						
Portland, Maine						
Main Concentrate	50.00	50.13	15.00	22.37		
Maritime Milling Co., Inc.						
Buffalo, New York						
B-B Broiler Ration	20.00	23.64	3.50	4.93	7.00	6.92
B-B Calf Starter Ration	18.50	18.87	3.00	3.76	8.00	6.80
B-B Complete Chick Starter Ration .	20.00	23.90	3.50	4.98	7.00	6.87
B-B Complete Laying Ration	16.00	18.76	3.50	4.21	8.50	6.61
B-B Conditioning Mash	14.00	16.73	2.50	3.29	6.00	4.16
B-B Pure Corn and Oats Half and Half Ground	10.00	10.42	3.00	3.80	7.00	5.61
B-B Sweetened "16" Dairy Ration ...	16.00	18.65	3.50	3.94	9.00	10.25
Bull Brand "20" Dairy Ration	20.00	21.84	3.50	3.84	9.00	8.52
Bull Brand Dry and Fresh Cow Fit- ting Ration	13.00	15.19	3.50	3.62	10.00	9.77
Bull Brand Egg Mash	20.00	22.72	3.50	3.84	8.00	7.09
Bull Brand Growing Mash	18.00	21.36	3.00	4.06	8.00	7.10
Bull Brand Horse Feed	9.00	11.51	2.00	3.18	10.00	8.90
Bull Brand Pig and Hog Feed	15.00	18.87	3.50	4.22	7.00	6.72
Bull Brand Turkey Fitting Ration ...	11.00	13.44	3.00	3.52	10.00	8.49
Dollar \$ Maker Egg Mash	18.00	20.22	3.50	4.05	8.50	8.47
Hi-Test Dairy Feed 20%	20.00	21.27	3.50	3.65	12.00	8.20
Hi-Test Hog Feed	14.00	16.33	3.50	4.70	8.50	8.26
Marmico 16% Dairy Feed	16.00	17.38	3.00	4.24	12.00	11.12
Merrimack Farmers' Exchange, Inc.						
Concord, New Hampshire						
Merrimack All Mash	15.00	16.77	3.50	4.92	7.00	6.46
Merrimack All Mash Flush	15.00	16.77	3.50	6.65	7.00	6.76
Merrimack Breeder Mash	19.50	20.92	4.50	4.85	7.00	6.28
Merrimack Calf Growing Ration ...	12.00	15.19	3.00	3.84	12.00	8.74
Merrimack Calf Starter	18.00	19.66	4.00	4.55	7.00	7.54
Merrimack Calving Ration	12.00	14.14	3.00	3.51	15.00	13.36
Merrimack Chick and Broiler Mash .	18.50	19.17	3.50	4.56	7.00	7.52

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Merrimack Farmers' (Concluded)						
Merrimack Chick Starter	18.00	18.43	3.50	4.32	7.00	6.43
Merrimack Complete Layer	15.00	15.89	3.50	4.37	7.00	6.36
Merrimack 16% Dairy Ration	16.00	15.70	3.50	3.98	9.00	6.70
Merrimack 20% Dairy Ration	20.00	20.31	3.50	4.46	8.50	8.50
Merrimack 14% Fitting Ration	14.00	15.50	4.00	4.11	9.00	7.61
Merrimack Goat Ration	14.00	14.49	4.00	4.32	9.00	7.51
Merrimack Growing Mash	17.00	17.73	3.50	4.38	8.00	7.38
Merrimack Hog Ration	15.00	16.73	3.00	4.55	7.00	7.00
Merrimack Horse Feed	11.00	12.95	3.50	3.93	10.00	7.26
Merrimack Laying Mash	19.00	19.11	3.50	4.27	7.00	6.41
Merrimack Pig Feed	17.00	18.30	3.00	4.22	7.00	6.14
Merrimack Provender	9.00	10.63	4.00	3.96	10.00	6.45
Merrimack Rabbit Pellets	14.00	16.46	4.00	4.05	8.50	6.01
Merrimack 18% Special Dairy Ration	18.00	19.83	4.00	4.01	8.50	6.95
Merrimack Stock Feed	9.00	12.34	2.50	3.14	12.00	11.16
Merrimack Turkey Growing Mash ...	20.00	19.23	3.00	4.83	8.00	6.59
Merrimack Turkey Starter Mash	24.00	24.95	3.25	3.81	7.00	5.89
Midland Flour Milling Co.						
North Kansas City, Missouri						
Town Crier Pure Wheat Bran	16.00	14.71	3.50	4.65	11.00	10.94
George Q. Moon & Co., Inc.						
Binghamton, New York						
Moon's Fitting Ration	13.00	14.45	3.00	3.98	9.00	7.32
Moon's Hog Feed	13.00	13.66	3.00	3.32	12.00	11.34
Moon's 90 Horse Feed	9.00	11.12	3.00	3.11	10.00	9.35
N. E. Complete Laying Mash	15.00	21.80	3.00	4.29	9.00	8.11
Special A Dairy 16% Ration	16.00	18.17	3.00	3.76	12.00	11.93
U. S. 20% Dairy Ration	20.00	20.53	3.00	3.72	12.00	11.45
Moundridge Milling Co.						
Moundridge, Kansas						
Wheat Bran	14.50	13.91	3.50	4.67	11.00	8.96
National Alfalfa Dehydrating & Milling Co.						
Lamar, Colorado						
Jack Rabbit 17% Dehydrated Alfalfa Meal	17.00	16.52	1.50	1.63	27.00	27.93
National Distillers Products Corporation						
New York, New York						
Produlac Brand Dried Corn Distillers Grains with Solubles	27.00	26.29	8.00	9.37	9.00	7.84
Neumond Co.						
St. Louis, Missouri						
Neumond's 20% Dehydrated Alfalfa Leaf Meal	20.00	18.76	2.50	2.53	18.00	29.06
Neumond's 17% Dehydrated Alfalfa Meal	17.00	19.09	1.50	1.92	27.00	26.49
New England Grain Co.						
Portland, Maine						
New England Complete Laying Mash	15.00	16.90	4.00	4.58	7.00	7.98
New England Fitting Ration	14.00	17.38	4.00	4.01	8.00	9.29
New England Pig and Hog Ration ...	15.00	16.24	4.00	5.17	10.00	9.34
New England Milkway 20% Dairy Feed	20.00	21.89	4.00	4.84	10.00	11.33

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
New England Grain Co. (Concluded)						
New England Sweetened Stock Feed	9.00	15.46	3.50	3.84	10.00	15.08
New England 18% Test Ration	18.00	20.75	4.50	4.57	9.00	10.86
3 in 1 Mash Climate-tested Starting, Growing, and Laying	18.00	19.48	4.00	4.43	7.00	6.93
Ogden Grain Co.						
Utica, New York						
Biddy Mash	20.00	21.23	4.00	4.85	10.00	9.28
Cloverbloom Dairy Feed	20.00	20.01	3.50	3.71	12.00	8.39
Ogden 20% Breeder	20.00	21.49	4.00	5.39	8.00	7.52
Ogden Complete Starter-Grower-Layer	16.00	18.74	4.00	4.91	10.00	9.32
Ogden Complete Starter-Grower-Layer-Breeder	16.00	18.12	4.00	4.82	9.00	9.31
Ogden Horse Feed	10.00	11.99	3.00	3.79	9.00	8.25
Ogden Layer and Breeder	20.00	20.75	4.00	4.83	9.00	7.01
Ogden 22% Pellets	22.00	22.16	4.00	5.10	10.00	8.17
Ogden Pig Feed	14.00	17.07	3.50	4.48	12.00	8.67
Ogden Starter and Broiler Ration	20.00	21.62	4.00	5.09	9.00	8.34
Oswego Soy Products Corp.						
Oswego, New York						
35% Concentrate	35.00	38.52	4.00	4.02	7.00	5.18
Expeller Soybean Oil Meal Toasted	44.00	42.18	2.50	5.81	7.00	6.12
Old Process Expeller Soybean Oil Meal	41.00	43.08	4.00	5.13	7.00	5.50
Soybean Oil Meal Toasted	44.00	44.56	0.50	5.83	7.00	5.61
Park & Pollard Co.						
Buffalo, New York						
Corn and Oats Half and Half	10.00	11.29	3.00	3.98	8.00	6.70
Doublex 20% Dairy Ration	20.00	20.57	3.00	4.49	12.00	8.29
Go-Tu-It Pig and Hog Ration	15.00	17.82	2.50	3.97	8.00	7.78
Hi-Valu Scratch Pellets	12.00	15.24	2.50	3.46	6.50	7.02
Lay or Bust All Mash Grower	14.50	17.99	2.50	3.41	7.00	6.54
Lay or Bust All Mash Layer	15.00	17.34	2.50	3.65	7.00	6.14
Lay or Bust Breeder Mash	20.00	24.82	2.50	4.01	7.50	6.26
Lay or Bust Broiler Mash	20.00	21.93	2.50	3.77	7.00	5.36
Lay or Bust Chick Starter	20.00	21.49	2.50	3.60	7.00	5.39
Lay or Bust Egg Mash	20.00	21.23	2.50	3.26	7.50	6.37
Lay or Bust Growing Feed	18.00	21.80	2.50	3.69	7.50	7.45
Lay or Bust Growing Pellets	18.00	22.68	2.50	4.01	7.50	6.83
Lay or Bust Laying Pellets	20.00	20.70	2.50	3.91	7.50	6.49
Lay or Bust Turkey Grower	20.00	22.59	2.50	3.61	7.00	7.77
Lay or Bust Turkey Starter	25.00	23.73	2.50	3.75	6.50	7.47
Milk Maid Bulky Sweet Dairy Feed	12.00	12.82	2.50	3.44	14.00	11.51
Milk Maid Calf Starter Mix	19.00	20.44	3.50	4.07	8.00	6.40
Milk Maid 32% Dairy Mix	32.00	33.01	2.50	3.96	9.00	6.17
Milk Maid 16% Dairy Ration	16.00	19.61	3.50	3.90	10.00	8.08
Milk Maid 16% Dairy Ration Special	16.00	20.66	3.50	4.34	10.00	7.99
Milk Maid 20% Dairy Ration	20.00	22.37	3.50	3.73	10.00	7.38
Milk Maid 20% Dairy Ration Special	20.00	22.50	3.50	4.23	10.00	7.82
Milk Maid 24% Dairy Ration	24.00	25.35	3.50	3.11	10.00	6.92
Milk Maid Fitting Ration	14.00	15.19	3.00	4.28	9.00	7.04
Milk Maid Goat Feed	16.00	18.91	3.00	3.88	9.00	7.30
Milk Maid Test Cow Ration	18.00	20.92	4.00	4.38	9.00	7.42
Rabbit Pellets	14.00	15.85	2.50	3.79	12.00	6.09

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Park & Pollard Co. (Concluded)						
Stock Feed	9.00	10.06	2.00	3.96	12.00	12.61
Yankee Horse Feed	10.00	12.21	2.50	4.15	10.00	7.10
Parrish & Heimbecker, Ltd.						
Toronto, Canada						
"Parrheim" Pure Wheat Shorts	16.00	19.09	5.00	5.09	8.00	7.24
Pasco Packing Co.						
Dade City, Florida						
Sugar Sweet Citrus Pulp	6.00	5.67	2.75	3.82	14.00	11.99
Patent Cereals Co.						
Geneva, New York						
Hominy Feed	9.00	10.50	5.00	6.76	5.00	4.36
Pilgrim Feed Co.						
Providence, Rhode Island						
Pilgrim All Purpose Complete Ration	16.00	17.03	3.50	4.67	8.00	8.47
Pilgrim Broiler Mash	18.00	20.05	3.50	5.05	7.00	8.32
Pilgrim Egg and Breeder Mash	20.00	16.33	4.00	4.28	7.00	6.64
Pilgrim 14% Fattening and Freshen- ing Ration	14.00	16.11	1.00	4.27	8.00	7.54
Pilgrim Ideal 20% Dairy Ration	20.00	19.41	3.50	3.82	10.00	10.45
Pilgrim 18% Layer Mash	18.00	17.80	4.00	4.01	8.00	7.64
Pilgrim Starter and Broiler Mash ...	20.00	20.09	4.00	4.96	7.00	8.20
Pillsbury Mills, Inc.						
Minneapolis, Minnesota						
Pillsbury's Hard Wheat Bran with Ground Wheat Screenings	14.00	16.99	4.00	4.91	12.00	9.96
Pillsbury's Wheat Bran with Ground Wheat Screenings	14.50	15.59	3.50	4.22	11.00	9.71
Pittsford Flour Mills, Inc.						
Pittsford, New York						
Saturn Wheat Bran	13.00	13.14	3.00	4.10	11.00	10.17
Pittsford Milling Co., Inc.						
Pittsford, New York						
Victor Spring Wheat Bran	15.00	15.32	4.00	4.45	11.00	9.39
Publicker Industries, Inc.						
Philadelphia, Pennsylvania						
25% Corn Distillers Dried Grains ...	25.00	26.79	8.00	8.92	15.00	16.59
Quaker Oats Co.						
Chicago, Illinois						
Big Egg Chick Starter Growing Mash	17.00	17.03	3.00	3.66	8.00	7.61
Big Egg Laying Mash	20.00	20.84	3.00	3.32	8.00	7.37
Ful-O-Pep Chick Starter	18.00	18.08	4.00	4.43	8.00	6.59
Ful-O-Pep 16% Dairy Ration	16.00	17.25	3.50	4.25	11.00	8.19
Ful-O-Pep 20% Dairy Ration	20.00	20.70	3.50	3.86	11.00	8.41
Ful-O-Pep Egg Breeder Mash	20.00	20.44	4.00	5.47	8.00	6.90
Ful-O-Pep Fitting Ration	14.00	15.19	3.50	4.24	11.00	9.08
Ful-O-Pep Growing Mash	19.00	19.96	4.00	5.06	8.00	6.57
Ful-O-Pep Laying Mash	20.00	20.31	3.50	3.98	8.00	7.54
Ful-O-Pep Super Greens	19.00	19.83	4.50	5.51	8.00	7.81
Quaker Pig-N-Hog Feed	16.00	17.69	3.50	4.59	10.00	8.97
Quaker 16% Protein Dairy Ration ...	16.00	18.13	2.50	3.38	12.00	11.25
Quaker 20% Protein Dairy Ration ...	20.00	19.68	3.00	3.39	12.00	10.43
Quaker Sugared Schumacher Feed ..	10.00	14.75	3.00	3.21	12.00	9.76

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand						
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Quality Products, Inc.						
La Feria, Texas						
Tex Delta Dried Citrus Pulp	5.50	6.96	2.50	2.51	10.50	11.68
Ralston Purina Co.						
St. Louis, Missouri						
Chowmix Laying Mash 18%	18.00	20.05	3.00	4.60	8.00	7.99
Corn and Oat Provender	10.00	8.43	3.50	3.65	10.00	4.33
Northeastern All-In-One Mash	15.50	15.76	3.00	3.80	9.00	7.63
Northeastern 18% Creamery Ration .	18.00	18.48	3.00	4.09	12.00	11.04
Northeastern Egg Maker	20.00	20.84	3.00	4.39	9.00	8.70
Purina B & M Cow Chow	16.00	16.46	3.50	3.53	10.00	6.67
Purina Breeder Lay Chow	22.00	22.98	3.50	5.20	8.00	7.79
Purina Breeder Layena Complete Ra- tion	15.50	16.99	3.00	4.54	8.00	5.80
Purina Broiler Chow	18.00	21.06	3.50	3.96	7.00	5.51
Purina Bulky Las	10.00	11.20	2.00	1.86	16.00	15.13
Purina Calf Startena	19.50	20.62	2.50	3.85	9.50	9.07
Purina Chick Chow (Fine)	10.00	9.76	2.00	2.48	4.00	2.53
Purina Chick Growena	17.00	19.09	3.00	4.19	7.00	5.49
Purina Chick Growing Chow	23.00	23.47	3.50	4.89	8.00	6.73
Purina Chick Startena	20.00	20.92	3.50	4.89	7.00	4.57
Purina Complete Sow and Pig Chow .	16.00	17.64	3.00	4.45	8.00	7.19
Purina Cow Chow	18.00	19.17	3.00	3.36	10.00	7.89
Purina Cow Chow Supplement (Check- ers)	24.00	25.04	3.00	4.29	11.00	10.79
Purina Dry and Freshening Chow ...	12.50	12.82	2.00	3.70	14.00	10.08
Purina Eastern Cow Chow	20.00	20.09	3.00	3.71	12.00	9.25
Purina Eggena	15.50	16.51	3.00	3.78	8.00	9.65
Purina Flock Chow	17.00	18.47	3.00	4.64	8.00	7.61
Purina Flushing Mash	18.00	20.71	2.50	3.57	6.00	6.22
Purina Goat Chow	16.00	17.25	3.50	4.40	10.00	7.59
Purina Hen Chow	10.00	9.71	2.00	3.73	5.00	4.09
Purina Hog Fatena	14.00	16.20	3.00	5.20	7.00	5.77
Purina Lay Chow	20.00	22.23	3.00	4.31	8.00	7.81
Purina Layena	15.50	16.73	3.00	4.93	8.00	6.81
Purina Milk Chow	16.00	18.87	3.00	3.21	10.00	9.11
Purina Omolene	10.00	11.38	3.00	3.49	11.00	8.24
Purina Rabbit Chow Checkers	20.00	22.46	2.00	3.90	18.00	16.57
Purina Turkey Breeder Layena	16.50	17.95	3.50	4.46	8.00	6.04
Purina Turkey Fatena Checkers	14.00	15.10	3.50	4.08	7.00	6.33
Purina Turkey Growena	18.00	20.66	3.50	4.47	7.00	6.70
Purina Turkey Startena	24.00	25.78	4.00	3.89	7.00	6.18
John Reardon & Sons						
Cambridge, Massachusetts						
Register Brand 45% Protein Meat and Bone Scrap	45.00	38.33	8.00	8.53		
Red Wing Milling Co.						
Red Wing, Minnesota						
Red Wing Special Wheat Bran with Ground Wheat Screenings	14.50	17.25	4.10	4.99	15.60	10.21
Rodney Milling Co.						
Kansas City, Missouri						
Heart of America Pure Wheat Bran	14.50	15.68	3.50	4.11	10.00	9.67
Russell Miller Mfg. Co.						
Minneapolis, Minnesota						
Hard Wheat Occident Bran	14.00	17.55	4.00	4.86	11.50	10.27

* Protein and fat not less than, crude fiber not more than.

Manufacturer Brand	Pounds in 100 lbs. of Feedingstuff					
	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
Russell Miller Mfg. Co. (Concluded)						
Hard Wheat Occident Flour Middlings	15.50	15.24	3.00	3.40	5.00	3.19
Hard Wheat Occident Standard Mid- dlings with Ground Wheat Screen- ings	15.00	19.61	4.00	5.61	9.50	8.07
St. Mary's Flour Mills						
St. Mary's, Missouri						
Grey Wheat Shorts with Ground Wheat Screenings	16.00	15.67	3.50	3.89	6.00	6.59
Saunders Mills, Inc.						
Toledo, Ohio						
Alfalfa Meal	17.00	20.92	1.50	1.82	30.00	21.06
Schenley Distilleries, Inc.						
New York, New York						
Corn Distillers Dried Grains with Solubles	24.00	30.03	5.00	6.70	13.00	11.43
Joseph Schlitz Brewing Co.						
Milwaukee, Wisconsin						
Schlitz Purity Brewers Dried Grains	26.00	26.27	6.00	6.29	16.00	14.21
Scroggins Grain Co.						
Minneapolis, Minnesota						
Ground Corn	9.00	9.23	3.00	2.57	6.00	2.08
Sherwin Williams Co.						
Cleveland, Ohio						
Sherwin Williams Pure O. P. 34%						
Linseed Oil Meal	34.00	34.06	4.50	6.46	9.00	7.91
S. W. Old Process Linseed Meal	32.00	34.80	4.50	7.07	9.00	8.02
Sioux Soya Co.						
Sioux City, Iowa						
18% Egg Mash	18.00	16.99	4.00	3.04	7.00	10.67
South End Hay and Grain						
Manchester, New Hampshire						
Feedboard Breeder Mash	20.00	20.14	4.00	4.27	7.00	7.81
Feedboard Growing Mash	18.00	19.61	3.00	4.25	7.00	7.32
Feedboard Starter and Broiler Ration	20.00	20.35	3.50	4.19	7.00	7.48
F. B. Spaulding Co.						
Lancaster, New Hampshire						
Miracle Egg Mash	16.00	18.25	3.00	3.58	9.00	7.73
Provender	10.00	10.15	3.50	4.34	9.00	6.37
Spaulding's Dairy Feed	20.00	20.14	3.50	4.22	9.00	7.60
Spaulding & Sons						
Milford, New Hampshire						
Spaulding's All Mash Grower	16.00	18.08	4.00	4.17	7.00	6.39
Spaulding's All Mash Layer	16.00	16.07	3.50	4.33	7.50	7.32
Spaulding's 20% Layer	20.00	21.45	3.50	4.28	7.50	6.34
Spaulding's Starter-Broiler	20.00	20.93	3.50	4.61	7.00	6.10
Spencer Kellogg & Sons, Inc.						
Chicago, Illinois						
Spencer Kellogg 34% O. P. Linseed Oil Meal	34.00	33.90	3.50	4.26	9.00	8.78
Spencer-Kellogg 41% Protein Soybean Oil Meal	41.00	43.47	3.50	4.14	7.00	5.71

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
A. E. Staley Mfg. Co.						
Decatur, Illinois						
Staley's Corn Gluten Feed	23.00	25.70	1.50	3.00	8.00	7.20
Staley's Corn Gluten Meal	41.00	41.07	1.00	3.33	6.00	3.98
Staley's 41% Protein Soybean Oil Meal	41.00	44.13	3.50	4.10	7.00	5.74
Standard Milling Co.						
Chicago, Illinois						
Hecker's Choice Wheat Bran with Ground Wheat Screenings	13.50	16.07	3.50	5.09	13.00	10.88
Stratton & Co.						
Concord, New Hampshire						
Stratton's Fancy Fine White Middlings	14.00	15.15	4.26	3.61	6.50	3.15
Stratton & Co.'s Fancy Wheat Bran ..	14.00	13.62	4.00	3.87	11.00	9.26
Stratton's Standard Wheat Middlings	14.00	14.93	4.00	4.37	9.00	6.92
Stratton's "S & CO" Stock Feed	7.50	7.09	2.83	3.24	14.43	14.29
Stratton's "S & CO" Stock Feed	7.50	10.29	2.83	3.96	14.43	13.10
Swift & Co.						
Fostoria, Ohio						
Swift's 42% Protein Soybean Oil Meal	42.00	43.91	3.50	5.21	7.00	5.93
Swift & Company Soybean Mill						
Frankfort, Indiana						
Swift's 44% Protein Soybean Oil Meal	44.00	45.91	0.50	0.32	7.00	6.16
Trico Feed Mills						
Minden, Nebraska						
17% Dehydrated Alfalfa Meal	17.00	18.43	1.50	1.83	28.00	27.41
Unity Grist Mill						
Manchester, New Hampshire						
Unity Broiler Ration	19.00	19.87	4.00	4.51	7.00	6.72
Unity Grist Mill Breeder Mash	20.00	18.78	3.00	4.37	7.00	6.25
Unity Grist Mill Chick Starter	18.00	17.91	3.50	4.39	7.00	6.50
Unity Grist Mill 20% Dairy Ration ..	20.00	21.71	3.50	4.58	10.00	8.06
Unity Grist Mill Fitting Ration	14.00	16.29	3.50	4.56	8.00	7.99
Unity Grist Mill Growing Mash	18.00	18.12	3.00	4.22	7.00	6.98
Unity Grist Mill Horse Feed	11.00	11.91	3.50	3.85	8.00	7.31
Unity Grist Mill Laying Mash	18.00	18.21	3.00	4.76	7.00	6.37
Unity Grist Mill 4-Way Mash	15.00	17.68	3.50	4.20	7.00	6.10
Unity Pig and Hog Feed	17.00	18.39	4.00	4.63	7.00	6.48
Unity Super Ration	20.00	19.28	5.00	5.42	3.50	2.59
Wayne County Grangers Feed Corp.						
Clyde, New York						
Milk Producer 20% Dairy Feed	20.00	21.40	3.50	4.07	10.00	11.80
Superior Complete Growing Mash ...	16.00	18.61	3.50	4.12	8.00	7.79
Superior Complete Laying Mash	16.00	20.75	3.50	4.28	8.00	7.59
Superior 16% Dairy Feed with Beet Pulp	16.00	18.12	4.00	3.71	10.00	10.69
Superior 20% Dairy Feed	20.00	20.44	3.50	3.59	12.00	17.41
Superior 20% Dairy Feed with Beet Pulp	20.00	21.80	3.50	3.98	10.00	10.41
Superior Fitting Ration	14.00	15.81	3.50	3.58	9.00	13.52
Superior Hog Ration	16.00	18.96	3.50	3.86	7.00	12.51
Superior Horse Feed	10.00	11.25	3.00	3.02	9.00	11.77
Superior Laying Mash	18.00	18.91	3.00	3.61	8.00	6.81

* Protein and fat not less than, crude fiber not more than.

Manufacturer

Pounds in 100 lbs. of Feedingstuff

Brand	Protein		Fat		Crude Fiber	
	Guaranteed*	Found	Guaranteed*	Found	Guaranteed*	Found
H. K. Webster Co.						
Richford, Vermont						
Blue Seal All Mash Breeders Ration .	15.00	17.69	3.50	5.07	6.00	6.97
Blue Seal All Mash Egg Ration	15.00	16.94	3.50	4.79	6.00	6.56
Blue Seal All Mash Growing Ration .	14.50	16.29	3.50	5.37	6.00	6.91
Blue Seal Breeders Mash	20.00	20.66	3.50	5.94	7.00	6.59
Blue Seal Broiler Mash	24.00	25.83	4.00	5.01	6.50	6.45
Blue Seal Chick Starter	19.00	20.22	3.50	5.00	6.50	6.41
Blue Seal Corn-Oats Provender	9.50	10.33	4.00	4.14	7.00	6.71
Blue Seal "16" Dairy Ration	16.00	17.86	3.50	4.47	9.00	8.45
Blue Seal "20" Dairy Ration	20.00	21.54	4.00	4.35	9.00	7.82
Blue Seal Egg Mash	20.00	21.62	3.50	5.61	6.50	7.19
Blue Seal Fine "16" Dairy Ration . . .	16.00	19.61	3.50	3.66	9.00	8.46
Blue Seal Fine "20" Dairy Ration . . .	20.00	23.51	3.50	3.58	9.00	7.71
Blue Seal Fitting Ration	14.00	15.67	4.00	4.56	9.00	7.42
Blue Seal Growing Mash	18.00	19.53	3.50	5.41	7.00	6.94
Blue Seal Horse Feed	10.00	11.07	3.00	3.39	9.00	6.36
Blue Seal Pig Feed	15.00	16.64	3.00	5.39	6.00	5.97
Blue Seal Succulent Feed	10.00	12.12	1.50	2.60	18.00	14.42
Blue Seal Stock Feed	8.50	11.12	3.00	4.49	17.00	11.69
Blue Seal Super Starter and Broiler .	20.00	23.56	4.00	4.69	4.50	4.66
Blue Seal Test Ration	18.00	19.57	4.00	4.50	9.00	8.99
Blue Seal Tonic Mash	15.00	16.59	3.50	5.99	6.00	5.89
Blue Seal Turkey Growing	20.00	21.27	3.50	5.45	7.00	6.86
Richford Economizer Dairy Ration ..	16.00	17.20	3.00	2.53	15.00	12.55
Whitmoyer Laboratories, Inc.						
Myerstown, New York						
Whitmoyer Booster Pellets	24.00	27.06	8.00	6.62	8.75	8.68

* Protein and fat not less than, crude fiber not more than.

